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Jun 24, 1998

DERWENT-ACC-NO: 1998-324450

DERWENT-WEEK: 200401

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TITLE: Sealable oriented film for packaging applications - based on polymers of polycyclic olefin and optionally acyclic olefin, e.g. norbornene and ethylene

INVENTOR: BEER, E; HATKE, W

PRIORITY-DATA: 1997DE-1049878 (November 12, 1997), 1996DE-1052774 (December 19, 1996)

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## PATENT-FAMILY:

|                          | PUB-NO                | PUB-DATE          | LANGUAGE | PAGES | MAIN-IPC   |
|--------------------------|-----------------------|-------------------|----------|-------|------------|
| <input type="checkbox"/> | <u>EP 849074 A2</u>   | June 24, 1998     | G        | 012   | B32B027/32 |
| <input type="checkbox"/> | <u>DE 19652774 A1</u> | June 25, 1998     |          | 000   | C08L045/00 |
| <input type="checkbox"/> | <u>CA 2225186 A</u>   | June 19, 1998     |          | 000   | C08L045/00 |
| <input type="checkbox"/> | <u>JP 10237129 A</u>  | September 8, 1998 |          | 011   | C08F032/08 |
| <input type="checkbox"/> | <u>TW 460487 A</u>    | October 21, 2001  |          | 000   | C08F232/08 |

INT-CL (IPC): B29 C 55/02; B29 K 23:00; B29 L 7:00; B32 B 27/08; B32 B 27/32; B65 D 65/40; C08 F 4/642; C08 F 32/08; C08 F 232/08; C08 J 5/18; C08 L 23/08; C08 L 23:00; C08 L 45/00; C08 L 45/02; C08 L 65/00

ABSTRACTED-PUB-NO: EP 849074A

## BASIC-ABSTRACT:

Single- or multilayer sealable film with a sealing temperature which is 5-70 deg. C, above the glass transition temperature (Tg), containing cycloolefin (co)polymer(s) (COC) with (a) 0.1-100 (preferably 0.1-99.9) wt% polymerised units of cyclic olefin (s) of formula (I), (II), (II'), (III), (IV), (V) and/or (VI) and (b) 0-99.9 mol% units derived from acyclic olefin(s) of formula (VII), in which R1-R8 = H, 1-20C hydrocarbyl such as 1-8C alkyl, 6-18C aryl or 7-20C alkylenearyl, cyclic or acyclic 2-20C alkenyl, or these groups may form a saturated, unsaturated or aromatic ring; n = 0-5; R9-R12 = H or 1-20C linear, branched, saturated or unsaturated hydrocarbyl such as 1-8C alkyl or 6-18C aryl. Also claimed is a process for the production of mono- or bi-axially oriented film, comprising production of the COC by hetero- or homogeneous catalysis with organometallic compounds, followed by extrusion to film and stretching in one or two directions.

USE - As packaging material (claimed).

ADVANTAGE - Provides new packaging film with improved sealing properties, i.e.

biaxially oriented film without a special sealing layer, which can be heat sealed without significant shrinkage if the sealing process is carried out quickly. This film also has relatively isotropic mechanical properties and other useful properties, especially a high tensile modulus in the machine direction.

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